UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22919 7590 03/10/2010 GLOBAL IP COUNSELORS, LLP 1233 20TH STREET, NW, SUITE 700 WASHINGTON, DC 20036-2680 EXAMINER
RUBY, TRAVIS C

ART UNIT PAPER NUMBER

1744

DATE MAILED: 03/10/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/586,605 | 07/19/2006 | Kazuhito Senba | DK-US040113 | 1656 |

TITLE OF INVENTION: MONITORING AND CONTROL SYSTEM FOR AIR CONDITIONER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(8) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 06/10/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat | form should be used to correspondence including d below or directed oth ions. | or transmittin ng the Patent, nerwise in Blo | g the ISSI advance o ock 1, by (| JE FEE and PUBLICAT rders and notification of a) specifying a new corre | TON FEE (if requiremaintenance fees visions spondence address; | ired). I vill be and/or | Blocks 1 through 5 s mailed to the current (b) indicating a sepa | nould be co corresponde rate "FEE / | mpleted where nce address as ADDRESS" for |
|--|---|--|--|---|--|---|--|--|---|
| | ENCE ADDRESS (Note: Use Bi | ock 1 for any chan | ge of address) | Fee | (s) Transmittal. The ers. Each additiona | is certil I paper | can only be used for icate cannot be used for such as an assignmentalling or transmission. | r domestic i or any other nt or formal | nailings of the accompanying drawing, must |
| 1233 20TH STR | 7590 03/10 OUNSELORS, L EET, NW, SUITE 7 , DC 20036-2680 | LP | | I be | Cer | tificate | of Mailing or Trans s) Transmittal is being ficient postage for fire ISSUE FEE address I) 273-2885, on the d | deposited v | rith the United in an envelope seing facsimile below. |
| | | | | | | | | | (Depositor's name) |
| | | | | _ | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENTOR | | ATTO | RNEY DOCKET NO. | CONFIRM | ATION NO. |
| 10/586,605 | 07/19/2006 | | | Kazuhito Senba | | | OK-US040113 | 16 | 556 |
| TITLE OF INVENTION | | | | | | | | | |
| APPLN, TYPE | SMALL ENTITY | ISSUE FE | EDUE | PUBLICATION FEE DUE | PREV. PAID ISSU | E FEE | TOTAL FEE(S) DUE | DA | TE DUE |
| nonprovisional | NO | \$151 | 01 | \$300 | \$0 | | \$1810 | 06/ | 10/2010 |
| EXAM | INER | ART U | NIT | CLASS-SUBCLASS | | | | | |
| RUBY, TI | | 374 | | 062-157000 | | | | | |
| "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha //122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp | nge of Corresp Indication for ed. Use of a Co | oondence orm Customer | 2. For printing on the in the names of up to or agents OR, alternating (2) the name of a sing registered attorney or 2 registered patent attellisted, no name will be THE PATENT (print or ty data will appear on the interpretable of the patents of | o 3 registered pater vely, le firm (having as a agent) and the nam ymeys or agents. If printed. pe) aatent. If an assign assignment. | memb es of u no nan | er a 2p to p to ge is 3 | ocument has | been filed for |
| Please check the appropri | | categories (w | | rinted on the patent): | | | on or other private gre | | |
| ☐ Issue Fee | o small entity discount p | permitted) | - | A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Depo | rd. Form PTO-2038 v authorized to cha | is atta | ched. required fee(s), any de | ficiency, or | |
| | SMALL ENTITY state | is. See 37 CFF | | ☐ b. Applicant is no lor | | | | | |
| NOTE: The Issue Fee and interest as shown by the r | I Publication Fee (if req ecords of the United Sta | uired) will not tes Patent and | be accepte Trademark | d from anyone other than Office. | the applicant; a regi | stered | attorney or agent; or th | e assignee o | r other party in |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | | | Registration N | | | | |
| This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450. | FR 1.311. The U.S.C. 122 ar USPTO. Tim rden, should b O NOT SEND | e information 37 CFR are will vary e sent to the FEES OR | on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T | retain a benefit by t timated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS | he pub minuter omment Trader S. SEN | lic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner | by the USP g gathering, ne you requi artment of C for Patents, I | TO to process) preparing, and re to complete ommerce, P.O. P.O. Box 1450, |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

| APPLICATION NO. | FI | LING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---------------------------------|------|------------|----------------------|-------------------------|------------------|--|
| 10/586,605 | (| 07/19/2006 | Kazuhito Senba | DK-US040113 | 1656 | |
| 22919 | 7590 | 03/10/2010 | | EXAMINER | | |
| GLOBAL IP COUNSELORS, LLP | | | RUBY, TRAVIS C | | | |
| 1233 20TH STREET, NW, SUITE 700 | | | | ART UNIT | PAPER NUMBER | |
| WASHINGTON, DC 20036-2680 | | | | 3744 | | |
| | | | | DATE MAILED: 03/10/2010 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 572 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 572 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/586 605 SENBA ET AL. Notice of Allowability Examiner Art Unit TRAVIS RUBY 3744 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 1/27/2010. The allowed claim(s) is/are 1,4,5,14,21 and 22. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

/Travis Ruby/ Examiner, Art Unit 3744 Application/Control Number: 10/586,605 Page 2

Art Unit: 3744

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Todd Guise on 2/26/2010.

The application has been amended as follows:

Claims 2, 3, 8, and 11 are canceled.

Claim 1 has been amended to include the recitation of Claims 2 and 3 as follows:

Claim 1 after line 18 add—the first air conditioning monitoring and control device communicate with the air conditioner using a first communication protocol;

the second air conditioning monitoring and control device further includes a communication protocol conversion unit capable of converting between the first communication protocol and a second communication protocol;

the first monitoring panel is configured to communicate with the first air conditioning monitoring and control device using the first communication protocol, and

the second monitoring panel is configured to communicate with the second air conditioning monitoring and control device using the second communication protocol:-- Application/Control Number: 10/586,605

Art Unit: 3744

2. The following is an examiner's statement of reasons for allowance:

Claim 1 recites "a first monitoring panel built into or connected via a first communication line to the first air conditioning monitoring and control device to monitor the air conditioner; and a second monitoring panel built into or connected via a second communication line to the second air conditioning monitoring and control device to monitor the air conditioner, the second communication line being separate from the first communication line and separately connecting to the second air conditioning monitoring and control device" which is not found in the prior art. In addition, the recitation of having two different communication protocols for the two different monitoring panels communicating with the monitoring and control devices further defines the invention over a 103(a) obviousness rejection that a monitoring panel can be added anywhere to a preexisting system since the limitation is now sufficiently narrow to overcome such an obviousness statement.

Jensen et al (US6389331) teaches an air conditioning monitoring and control system for a building that has two panels that communicate with various controls of the building. Jensen et al however fails to show two separate communication lines connecting the two monitoring panels to the two separate monitoring and control devices. Jensen et al shows a common network that connects the monitoring panels together. Thus Jensen et al fails to recite all of the limitations of Claim 1.

Yoon et al (US2004/0117069) teaches multiple protocol controllers that can convert from one protocol to another. Yoon et al fails to teach though multiple monitoring panels and thus fails to teach separate communication lines for two monitoring panels. Therefore, no obvious

combination of the prior art shows a motivation for separate communication lines, thus rendering the claim novel and non-obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance "

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRAVIS RUBY whose telephone number is (571)270-5760. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frantz Jules or Cheryl Tyler can be reached on 571-272-6681 or 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Travis Ruby/

Examiner, Art Unit 3744

Art Unit: 3744

/Frantz F. Jules/ Supervisory Patent Examiner, Art Unit 3744